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(71) Applicant (*for all designated States except US*): **GYROS AB** [SE/SE]; Uppsala Science Park, SE-751 83 Uppsala (SE).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **HOLMQUIST, Mats** [SE/SE]; Stora Slingan 20C, SE-192 73 Sollentuna (SE). **ENGSTROM, Johan** [SE/SE]; Artillerigatan 12 B, SE-752 37 Uppsala (SE).

(74) Agent: **BERGANDER, Hakan**; Uppsala Science Park, SE-751 83 Uppsala (SE).

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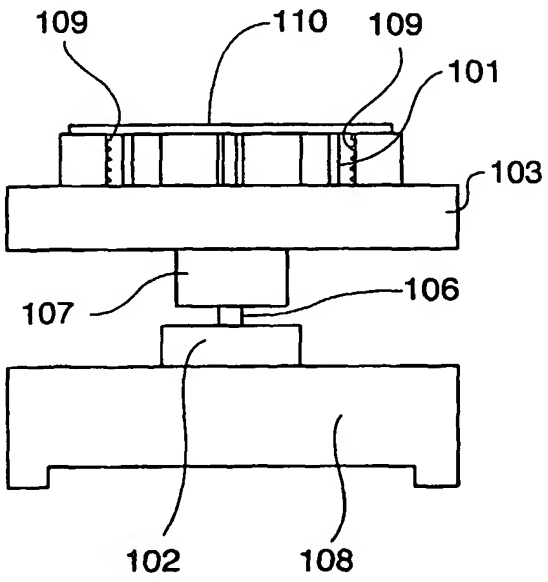
(54) Title: PARALLEL PROCESSING OF MICROFLUIDIC DEVICES



(57) Abstract: Microfluidic arrangement which comprises A) a number of microfluidic devices, and B) an instrument which comprises a spinner motor and a rotary member arranged such that liquid flow can be driven centrifugal force in each of the devices by spinning the . Each of the microfluidic devices comprises microchannel structures in a common planar layer I. The characteristic feature is that layer I of each device can be oriented radially and at an angle ≠ 0° relative to the plane of the rotary member, with preference for 90°. The rotary member has seats for holding the devices. A microfluidic device comprising i) two essentially planar and parallel opposite sides, and edge sides, ii) a set of one, two, three or more essentially equal microchannel structures, each of which comprises a first inlet arrangement comprising an inlet port IP I_1. The characteristic feature is that a) each of the inlet ports is present in an edge side, and b) the wettability of the inner walls of said first inlet arrangement permits penetration by capillarity of at least a predetermined first volume of an aqueous liquid.